Mouse Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 2 protein (PREX2) ELISA Kit

Catalog No: #EK8300

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Package Size: #EK8300-1 48T #EK8300-2 96T

Description

Product Name	Mouse Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 2 protein (PREX2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DEP.2; DEPDC2; P-REX2; 6230420N16Rik|DEP domain containing 2|PtdIns(3;4;5)-dependent Rac exchanger 2|phosphatidylinositol 3;4;5-trisphosphate-dependent RAC exchanger 2
Accession No.	Q3LAC4
Uniprot	Q3LAC4
GeneID	109294;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PREX2 in samples. An antibody specific for PREX2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPREX2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PREX2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PREX2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Prex2 was abundantly expressed in mouse brain and lung, with lower expression in liver, thymus, and spleen. In brain, highest expression was in cerebellum, with lower expression in frontal cortex, striatum, amygdala and hippocampus. In situ hybridization showed that Prex2 mRNA was highly restricted to cerebellum, with expression in Purkinje cells, including dendrites.Expression of PREX2 in PAE cells induced this 'activated Rac' morphology, which was reduced by inhibition of PI3K signaling and enhanced by PDGF stimulation. PREX2-mediated GTP loading onto RAC was synergistically stimulated by PI3K and G protein beta-1 (GNB1)/gamma-2 (GNG2)

subunits. Direct binding of phosphatidylinositol 3,4,5-trisphosphate to PREX2 was sufficient to stimulate PREX2 RAC-guanine nucleotide exchange factor activity.

Note: This product is for in vitro research use only